



**PT. MANDIRI ARTHA SOLUSI**  
EMPOWERING BUSINESS FORWARD

# Samsung SMART Signage

## QBR / QBT series

Display any content in ultra-high definition with incredibly rich color on slim, efficient signage.

Through intelligent UHD upscaling technology, Samsung's QBR and QBT series performs edge restoration and noise reduction to deliver UHD picture quality even with lower resolution content. Backed by Tizen 4.0, the QBR and QBT series also provides reinforced capability with multiple web formats and secured protection. Additionally, its new slim design simplifies wall mounting and ensures seamless installation.

### Highlights

- Engage customers with lifelike images through ultra high-definition resolution
- Deliver UHD-level picture quality even with lower resolution content through Crystal Processor 4K supporting innovative UHD upscaling technology
- Dynamic Crystal Display allows viewers to enjoy a wider spectrum of colors, up to one billion shades
- Symmetrical, slim design simplifies installation and complements any environment
- Secure, PC-free operation through Knox and rigid three-layer protection

**SAMSUNG**

# Specifications

| Model                           |                         |   | QB43R   | QB50R   | QB55R   | QB65R   | QB75R   |                       |
|---------------------------------|-------------------------|---|---|---|---|---|---|-----------------------|
| Panel                           | Diagonal Size           | Class   | 43  | 50  | 55  | 65  | 75  |                       |
|                                 |                         | Measured  | 42.5  | 50  | 54.6  | 64.5  | 74.5  |                       |
|                                 | Type                    | Edge LED BLU  | Edge LED BLU  | Edge LED BLU  | Edge LED BLU  | Edge LED BLU  |   |                       |
|                                 | Resolution              | UHD (3840 x 2160)   | UHD (3840 x 2160)   | UHD (3840 x 2160)   | UHD (3840 x 2160)   | UHD (3840 x 2160)   |   |                       |
|                                 | Pixel Pitch (mm)        | 0.2451 x 0.2451   | 0.285 x 0.285   | 0.315 x 0.315   | 0.372 x 0.372   | 0.42975 x 0.42975   |   |                       |
|                                 | Active Display Area     | 941.184 (H) x 529.416 (V)   | 1095.84(H) x 616.41(V)  | 1209.6(H) x 680.4(V)  | 1428.48 (H) x 803.52 (V)  | 1650.24 (H) x 928.26 (V)  |   |                       |
|                                 | Brightness(Typ.)        | 350   | 350   | 350   | 350   | 350   |   |                       |
|                                 | Contrast Ratio (Typ.)   | 4000:1  | 4000:1  | 4000:1  | 4000:1  | 4000:1  |   |                       |
|                                 | Viewing Angle(H/V)      | 178/178   | 178/178   | 178/178   | 178/178   | 178/178   |   |                       |
|                                 | Response Time (G to G)  | 8ms(Typ.)   | 8ms(Typ.)   | 8ms(Typ.)   | 8ms(Typ.)   | 8ms(Typ.)   |   |                       |
|                                 | Display Colors          | 16.7M(True Display)<br>1.07B(Dithered 10bit)  | 16.7M(True Display)<br>1.07B(Dithered 10bit)  | 16.7M(True Display)<br>1.07B(Dithered 10bit)  | 16.7M(True Display)<br>1.07B(Dithered 10bit)  | 16.7M(True Display)<br>1.07B(Dithered 10bit)  |   |                       |
|                                 | Color Gamut             | 92% (DCI-P3, CIE 1976)  | 92% (DCI-P3, CIE 1976)  | 92% (DCI-P3, CIE 1976)  | 92% (DCI-P3, CIE 1976)  | 92% (DCI-P3, CIE 1976)  |   |                       |
|                                 | Operation Hour          | 16/7  | 16/7  | 16/7  | 16/7  | 16/7  |   |                       |
|                                 | Haze                    | 2%  | 2%  | 2%  | 2%  | 2%  |   |                       |
| Display                         | Dynamic C/R             | MEGA  | MEGA  | MEGA  | MEGA  | MEGA  |   |                       |
|                                 | H-Scanning Frequency    | 30 ~ 81kHz  | 30 ~ 81kHz  | 30 ~ 81kHz  | 30 ~ 81kHz  | 30 ~ 81kHz  |   |                       |
|                                 | V-Scanning Frequency    | 48 ~ 75Hz   | 48 ~ 75Hz   | 48 ~ 75Hz   | 48 ~ 75Hz   | 48 ~ 75Hz   |   |                       |
|                                 | Maximum Pixel Frequency | 594MHz  | 594MHz  | 594MHz  | 594MHz  | 594MHz  |   |                       |
| Sound                           | Speaker Type            | Built in Speaker(10W + 10W)   | Built in Speaker(10W + 10W)   | Built in Speaker(10W + 10W)   | Built in Speaker(10W + 10W)   | Built in Speaker(10W + 10W)   |   |                       |
|                                 |                         |   |   |   |   |   |   |                       |
| Connectivity                    | INPUT                   | DVI-D   | DVI-D   | DVI-D   | DVI-D   | DVI-D   |   |                       |
|                                 |                         | VIDEO   | HDMI 2.0 (2)  | HDMI 2.0 (2)  | HDMI 2.0 (2)  | HDMI 2.0 (2)  |   |                       |
|                                 |                         | HDCP  | HDCP 2.2  | HDCP 2.2  | HDCP 2.2  | HDCP 2.2  |   |                       |
|                                 |                         | AUDIO   | Stereo Mini Jack, DVI/HDMI/<br>Audio(Common)  | Stereo Mini Jack, DVI/HDMI/<br>Audio(Common)  | Stereo Mini Jack, DVI/HDMI/<br>Audio(Common)  | Stereo Mini Jack, DVI/HDMI/<br>Audio(Common)  |   |                       |
|                                 |                         | USB   | USB 2.0 x 2   | USB 2.0 x 2   | USB 2.0 x 2   | USB 2.0 x 2   |   |                       |
|                                 | OUTPUT                  | RGB   | N/A   | N/A   | N/A   | N/A   | N/A   |                       |
|                                 |                         | VIDEO   | N/A   | N/A   | N/A   | N/A   | N/A   |                       |
|                                 |                         | AUDIO   | Stereo Mini Jack  | Stereo Mini Jack  | Stereo Mini Jack  | Stereo Mini Jack  | Stereo Mini Jack  |                       |
|                                 |                         | Power Out   | N/A   | N/A   | N/A   | N/A   | N/A   |                       |
|                                 |                         | USB   | N/A   | N/A   | N/A   | N/A   | N/A   |                       |
|                                 | EXTERNAL CONTROL        | RS232C(in/out) thru stereo jack, RJ45   | RS232C(in/out) thru stereo jack, RJ45   | RS232C(in/out) thru stereo jack, RJ45   | RS232C(in/out) thru stereo jack, RJ45   | RS232C(in/out) thru stereo jack, RJ45   |   |                       |
|                                 | EXTERNAL SENSOR         | IR  | IR  | IR  | IR  | IR  |   |                       |
|                                 | Tuner                   | N/A   | N/A   | N/A   | N/A   | N/A   |   |                       |
|                                 | Power                   | Type  | Internal  | Internal  | Internal  | Internal  | Internal  |                       |
| Power Supply                    |                         | AC100 - 240 V, 50/60 Hz   | AC100 - 240 V, 50/60 Hz   | AC100 - 240 V, 50/60 Hz   | AC100 - 240 V, 50/60 Hz   | AC100 - 240 V, 50/60 Hz   |   |                       |
| Power Consumption               |                         | Max[W/h]  | 110   | 143   | 143   | 181.5   | 231   |                       |
|                                 |                         | Typical[W/h]  | 67  | 86  | 108   | 128   | 150   |                       |
|                                 |                         | Rating[W/h]   | 100   | 130   | 130   | 165   | 210   |                       |
|                                 |                         | BTU(Max)  | 375.1   | 487.6   | 487.6   | 618.9   | 787.7   |                       |
|                                 |                         | Sleep mode  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |                       |
|                                 |                         | Off mode  | N/A   | N/A   | N/A   | N/A   | N/A   |                       |
| Mechanical Spec                 |                         | Dimension(mm)   | Set   | 967.5 x 557.7 x 48.3  | 1121.4 x 643.9 x 46.3   | 1235.1 x 707.9 x 46.3   | 1453.9 x 831.0 x 46.3   | 1681.1 x 960.1 x 49.7 |
|                                 |                         |   | Package   | 1095 x 676 x 151  | 1269 x 784 x 152  | 1402 x 858 x 163  | 1611 x 973 x 185  | 1871 x 1127 x 223     |
|                                 | Weight (kg)             | Set   | 10  | 13.4  | 18.1  | 24.9  | 38.3  |                       |
|                                 |                         | Package   | 13.3  | 17.6  | 23.6  | 33.3  | 49  |                       |
|                                 | VESA Mount              | 200 x 200   | 200 x 200   | 200 x 200   | 400 x 400   | 400 x 400   |   |                       |
|                                 | Protection Glass        | N/A   | N/A   | N/A   | N/A   | N/A   |   |                       |
|                                 | Stand Type              | Foot Stand (Optional)   | Foot Stand (Optional)   | Foot Stand (Optional)   | No  | No  |   |                       |
| Bezel Width (Top/Side/Bot) (mm) | 9.2mm(U/L/R), 11.2mm(B) | 9.2mm(U/L/R), 11.2mm(B)   | 9.2mm(U/L/R), 11.2mm(B)   | 9.2mm(U/L/R), 11.2mm(B)   | 11.5mm(U/L/R), 12.5mm(B)  |   |   |                       |
| Operation                       | Operating Temperature   | 0°C- 40°C   | 0°C- 40°C   | 0°C- 40°C   | 0°C- 40°C   | 0°C- 40°C   |   |                       |
|                                 | Humidity                | 10~80%  | 10~80%  | 10~80%  | 10~80%  | 10~80%  |   |                       |
| Feature                         | Key                     |   | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo S6, SSSP 6.0   | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo S6, SSSP 6.0   | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo S6, SSSP 6.0   | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo S6, SSSP 6.0   | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo S6, SSSP 6.0   |                       |
|                                 |                         | H/W   | Temperature Sensor/Pivot Display,<br>Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x Rating,<br>Wi-Fi/BT            | Temperature Sensor/Pivot Display,<br>Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x Rating,<br>Wi-Fi/BT            | Temperature Sensor/Pivot Display,<br>Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x Rating,<br>Wi-Fi/BT            | Temperature Sensor/Pivot Display,<br>Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x Rating,<br>Wi-Fi/BT            | Temperature Sensor/Pivot Display,<br>Clock Battery(168hrs Clock Keeping),<br>Built in Speaker(10W 2ch), IP5x Rating,<br>Wi-Fi/BT            |                       |
|                                 | S/W                     | Auto Source Switching & Recovery,<br>LFD Home UI, Button Lock, Hot key<br>option, Plug&Play (Initial Setting) | Auto Source Switching & Recovery,<br>LFD Home UI, Button Lock, Hot key<br>option, Plug&Play (Initial Setting)                               | Auto Source Switching & Recovery,<br>LFD Home UI, Button Lock, Hot key<br>option, Plug&Play (Initial Setting)                               | Auto Source Switching & Recovery,<br>LFD Home UI, Button Lock, Hot key<br>option, Plug&Play (Initial Setting)                               | Auto Source Switching & Recovery,<br>LFD Home UI, Button Lock, Hot key<br>option, Plug&Play (Initial Setting)                               |   |                       |
|                                 | Processor               | Coretex A72 1.7GHz Quad-Core CPU  | Cortex A72 1.7GHz Quad-Core CPU   | Coretex A72 1.7GHz Quad-Core CPU  | Coretex A72 1.7GHz Quad-Core CPU  | Coretex A72 1.7GHz Quad-Core CPU  |   |                       |
|                                 |                         | On-Chip Cache Memory  | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   |   |                       |
|                                 | Clock Speed             | 1.7GHz  | 1.7GHz  | 1.7GHz  | 1.7GHz  | 1.7GHz  |   |                       |
|                                 | Main Memory Interface   | 2.5GB<br>LPDDR4 1.5GHz 64bit  | 2.5GB<br>LPDDR4 1.5GHz 64bit  | 2.5GB<br>LPDDR4 1.5GHz 64bit  | 2.5GB<br>LPDDR4 1.5GHz 64bit  | 2.5GB<br>LPDDR4 1.5GHz 64bit  |   |                       |
|                                 |                         | Graphics  | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale<br>up from graphic processing result.)                               | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale<br>up from graphic processing result.)                               | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale<br>up from graphic processing result.)                               | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale<br>up from graphic processing result.)                               | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale<br>up from graphic processing result.)                               |                       |
|                                 | Storage (FDM)           | 8GB (3.88GB Occupied by O/S,<br>4.12GB Available)   | 8GB (3.88GB Occupied by O/S,<br>4.12GB Available)   | 8GB (3.88GB Occupied by O/S,<br>4.12GB Available)   | 8GB (3.88GB Occupied by O/S,<br>4.12GB Available)   | 8GB (3.88GB Occupied by O/S,<br>4.12GB Available)   |   |                       |
|                                 |                         | Multimedia  | *Video Decoder : MPEG-1/2/4, H.263,<br>H.264/AVC, UHD H.264/AVC, VC-1,<br>AVS+, HEVC, JPEG, PNG, VP8, VP9<br>*Audio Decoder: AC3 (DD), MPEG | *Video Decoder : MPEG-1/2/4, H.263,<br>H.264/AVC, UHD H.264/AVC, VC-1,<br>AVS+, HEVC, JPEG, PNG, VP8, VP9<br>*Audio Decoder: AC3 (DD), MPEG | *Video Decoder : MPEG-1/2/4, H.263,<br>H.264/AVC, UHD H.264/AVC, VC-1,<br>AVS+, HEVC, JPEG, PNG, VP8, VP9<br>*Audio Decoder: AC3 (DD), MPEG | *Video Decoder : MPEG-1/2/4, H.263,<br>H.264/AVC, UHD H.264/AVC, VC-1,<br>AVS+, HEVC, JPEG, PNG, VP8, VP9<br>*Audio Decoder: AC3 (DD), MPEG | *Video Decoder : MPEG-1/2/4, H.263,<br>H.264/AVC, UHD H.264/AVC, VC-1,<br>AVS+, HEVC, JPEG, PNG, VP8, VP9<br>*Audio Decoder: AC3 (DD), MPEG |                       |
|                                 | IO Ports                | USB 2.0   | USB 2.0   | USB 2.0   | USB 2.0   | USB 2.0   |   |                       |
|                                 |                         | Operating System  | Tizen 4.0 (VDLinux)   | Tizen 4.0 (VDLinux)   | Tizen 4.0 (VDLinux)   | Tizen 4.0 (VDLinux)   | Tizen 4.0 (VDLinux)   |                       |
|                                 | Certification           | Safety  | 60950-1   | 60950-1   | 60950-1   | 60950-1   | 60950-1   |                       |
|                                 |                         | EMC   | Class B   | Class B   | Class B   | Class B   | Class B   |                       |
| Environment                     |                         | ENERGY STAR 8.0, Epeat  | ENERGY STAR 8.0, Epeat  | ENERGY STAR 8.0, Epeat  | ENERGY STAR 8.0, Epeat  | ENERGY STAR 8.0, Epeat  |   |                       |
| Security                        |                         | 802.1x(WPA2 Enterprise) (201-) :<br>EAP-TLS, EAP-TTLS, EAP-PEAP   | 802.1x(WPA2 Enterprise) (201-) :<br>EAP-TLS, EAP-TTLS, EAP-PEAP   | 802.1x(WPA2 Enterprise) (201-) :<br>EAP-TLS, EAP-TTLS, EAP-PEAP   | 802.1x(WPA2 Enterprise) (201-) :<br>EAP-TLS, EAP-TTLS, EAP-PEAP   | 802.1x(WPA2 Enterprise) (201-) :<br>EAP-TLS, EAP-TTLS, EAP-PEAP   |   |                       |
| Accessories                     | Included                | Quick Setup Guide, Warranty Card,<br>Power Cord, Remote Controller,<br>Batteries                              | Quick Setup Guide, Warranty Card,<br>Power Cord, Remote Controller,<br>Batteries  | Quick Setup Guide, Warranty Card,<br>Power Cord, Remote Controller,<br>Batteries  | Quick Setup Guide, Warranty Card,<br>Power Cord, Remote Controller,<br>Batteries  | Quick Setup Guide, Warranty Card,<br>Power Cord, Remote Controller,<br>Batteries  |   |                       |
|                                 | Optional                | Stand   | STN-L4355F  | STN-L4355F  | STN-L4355F  | No  | No  |                       |
|                                 |                         | Mount   | WMN4070SE (Land Only)   | WMN4070SE (Land Only)   | WMN4070SE (Land Only)   | WMN4277SE (Land Only)   | WMN4277SE (Land Only)   |                       |
|                                 |                         | Specialty   | CML400XK  | CML400XK  | CML400XK  | CML450K   | CML450K   |                       |
|                                 |                         | Media Player  | N/A   | N/A   | N/A   | N/A   | N/A   |                       |

# Specifications

| Model                           |                                |  | QB85R   | QB98T   |   |
|---------------------------------|--------------------------------|--|---|---|---|
| Panel                           | Diagonal Size                  | Class  | 85  | 98  |   |
|                                 |                                | Measured                                       | 84.5  | 97.5  |   |
|                                 | Type                           | Edge LED BLU                                   | Direct LED BLU  |   |   |
|                                 | Resolution                     | UHD (3840 x 2160)                              | UHD (3840 x 2160)   |   |   |
|                                 | Pixel Pitch (mm)               | 0.4875 x 0.4875                                | 0.562 x 0.562 (mm)  |   |   |
|                                 | Active Display Area            | 1872.0(H) x 1053.01(V)                         | 2158.848(H) x 1214.352(V)   |   |   |
|                                 | Brightness(Typ.)               | 350  | 350   |   |   |
|                                 | Contrast Ratio (Typ.)          | 4000:1   | 1200:1  |   |   |
|                                 | Viewing Angle(H/V)             | 178/178  | 178/178   |   |   |
|                                 | Response Time (G to G)         | 8ms (Typ.)                                     | 8ms (Typ.)  |   |   |
|                                 | Display Colors                 | 16.7M (True Display)<br>1.07B (Dithered 10bit) | 16.7M (True Display)<br>1.07B (Dithered 10bit)  |   |   |
|                                 | Color Gamut                    | 92% (DCI-P3, CIE 1976)                         | 72%   |   |   |
|                                 | Operation Hour                 | 16/7   | 24/7  |   |   |
|                                 | Display                        | Haze   | 2%  | 25%   |   |
| Dynamic C/R                     |                                | MEGA   | MEGA  |   |   |
| H-Scanning Frequency            |                                | 30 ~ 81kHz                                     | 30 ~ 81kHz  |   |   |
| V-Scanning Frequency            |                                | 48 ~ 75Hz                                      | 48 ~ 75Hz   |   |   |
| Sound                           | Maximum Pixel Frequency        | 594MHz   | 594MHz  |   |   |
|                                 | Speaker Type                   | Built in Speaker(10W +10W)                     | Built in Speaker(10W +10W)  |   |   |
| Connectivity                    | INPUT                          | RGB  | DVI-D   | DVI-D, Display Port 1.2 (1)   |   |
|                                 |                                | VIDEO  | HDMI 2.0 (2)  | HDMI 2.0 (2)  |   |
|                                 |                                | HDCP   | HDCP 2.2  | HDCP 2.2  |   |
|                                 |                                | AUDIO  | Stereo Mini Jack, DVI/HDMI/Audio(Common)  | Stereo mini Jack, DVI, HDMI   |   |
|                                 |                                | USB  | USB 2.0 x 2   | USB 2.0 x 2   |   |
|                                 | OUTPUT                         | RGB  | N/A   | HDMI 2.0 (Loop-out)   |   |
|                                 |                                | VIDEO  | N/A   | N/A   |   |
|                                 |                                | AUDIO  | Stereo Mini Jack  | Stereo mini Jack  |   |
|                                 |                                | Power Out                                      | N/A   | N/A   |   |
|                                 |                                | USB  | N/A   | N/A   |   |
|                                 | EXTERNAL CONTROL               |  | RS232C(in/out) thru stereo jack, RJ45   | RS232C(in/out) thru stereo jack, RJ45   |   |
|                                 | EXTERNAL SENSOR                |  | IR  | IR  |   |
|                                 | Tuner                          |  | N/A   | N/A   |   |
| Power                           | Type                           |  | Internal  | Internal  |   |
|                                 | Power Supply                   |  | AC100 - 240 V, 50/60 Hz   | AC100 - 240 V, 50/60 Hz   |   |
|                                 | Power Consumption              | Max[W/h]                                       |   | 198   | 462   |
|                                 |                                | Typical[W/h]                                   |   | 143   | 360   |
|                                 |                                | Rating[W/h]                                    |   | 180   | 420   |
|                                 |                                | BTU(Max)                                       |   | 675.2   | 1576.4  |
|                                 |                                | Sleep mode                                     |   | 0.5   | 0.5   |
| Off mode                        |                                | N/A  | N/A   |   |   |
| Mechanical Spec                 | Dimension(mm)                  | Set  | 1897.8 x 1080.8 x 56.7  | 2195.8 x 1250.8 x 96.5  |   |
|                                 |                                | Package  | 2090 x 1247 x 260   | 2369 x 1405 x 350   |   |
|                                 | Weight (kg)                    | Set  | 48.4  | 83  |   |
|                                 |                                | Package  | 63.7  | 106   |   |
|                                 | VESA Mount                     |  | 600 x 400   | 800 x 400   |   |
|                                 | Protection Glass               |  | N/A   | N/A   |   |
|                                 | Stand Type                     |  | N/A   | N/A   |   |
| Bezel Width (Top/Side/Bot) (mm) |                                | 10.9mm(U/L/R), 12.9mm(B)                       | 17.9  |   |   |
| Operation                       | Operating Temperature          |  | 0°C~ 40°C   | 0°C~ 40°C   |   |
|                                 | Humidity                       |  | 10~80%  | 10~80%  |   |
| Feature                         | Key                            |  | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo 56, S5SP 6.0                                     | UHD Signage Display<br>Slim & Light Signage with<br>Built-in MagicInfo 56, S5SP 6.0   |   |
|                                 | Special                        | H/W  | Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), IP5x Rating, Wi-Fi/BT | Temperature Sensor,Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W 2ch), Video Wall Daisy Chain(HDCP2.2:4EA,HDCP1.4:7EA), Wi-Fi/BT |   |
|                                 |                                | S/W  | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)                 | Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot key option, Plug&Play (Initial Setting)   |   |
|                                 | Internal Player (Embedded H/W) | Processor                                      |   | Cortex A72 1.7GHz Quad-Core CPU   | Cortex A72 1.7GHz Quad-Core CPU   |
|                                 |                                | On-Chip Cache Memory                           |   | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   | L1 Instruction Cache : 48KB<br>L1 Data Cache : 32KB<br>L2 Cache : 2MB   |
|                                 |                                | Clock Speed                                    |   | 1.7GHz  | 1.7GHz  |
|                                 |                                | Main Memory Interface                          |   | 2.5GB<br>LPDDR4 1.5GHz 64bit  | 2.5GB<br>LPDDR4 1.5GHz 64bit  |
|                                 |                                | Graphics                                       |   | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale up from graphic processing result.)  | Graphic resolution : 1920x1080<br>Output resolution : 3840x2160 (Scale up from graphic processing result.)                          |
|                                 |                                | Storage (FDM)                                  |   | 8GB<br>(3.88GB Occupied by O/S, 4.12GB Available)   | 8GB<br>(3.88GB Occupied by O/S, 4.12GB Available)   |
|                                 |                                | Multimedia                                     |   | *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG                         | *Video Decoder : MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC, VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 *Audio Decoder : AC3 (DD), MPEG |
|                                 | IO Ports                       |  | USB 2.0   | USB 2.0   |   |
| Operating System                |                                | Tizen 4.0 (VDLinux)                            | Tizen 4.0 (VDLinux)   |   |   |
| Certification                   | Safety                         |  | 60950-1   | 60950-1   |   |
|                                 | EMC                            |  | Class A   | Class A   |   |
|                                 | Environment                    |  | N/A   | N/A   |   |
|                                 | Security                       |  | 802.1x(WPA2 Enterprise) (201-)<br>: EAP-TLS, EAP-TTLS, EAP-PEAP   | 802.1x(WPA2 Enterprise)<br>: EAP-TLS, EAP-TTLS, EAP-PEAP  |   |
| Accessories                     | Included                       |  | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries  | Quick Setup Guide, Warranty Card, Power Cord, Remote Controller, Batteries  |   |
|                                 | Optional                       | Stand  |   | N/A   | N/A   |
|                                 |                                | Mount  |   | WMN8200SF / WMN8200SG   | WMN8200SG   |
|                                 |                                | Specialty                                      |   | N/A   | N/A   |
| Media Player                    |                                | N/A  | N/A   |   |   |

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2019-09

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